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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/813,415	03/21/2001	Mark Dilman	1-6	2405
	7590 07/17/2007 & SHERIDAN, LLP/		EXAM	INER
LUCENT TEC	HNOLOGIES, INC		BILGRAMI, ASGHAR H	
595 SHREWSBURY AVENUE SHREWSBURY, NJ 07702			ART UNIT	PAPER NUMBER
			2143	
			MAIL DATE	DELIVERY MODE
			07/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	09/813,415	DILMAN ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Asghar Bilgrami	2143				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 Responsive to communication(s) filed on <u>02 May 2007</u>. This action is FINAL. 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
4) Claim(s) 1,6-12 and 14 is/are pending in the a 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1,6-12 and 14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 21 March 2001 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	wn from consideration. r election requirement. r. a)⊠ accepted or b)□ objected to drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	ite				

Application/Control Number: 09/813,415 Page 2

Art Unit: 2143

DETAILED ACTION

1. In light of applicants amendment to the claims and specification the examiner has withdrawn 112 rejection regarding claims 1, 7, 8, 9, 10.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 6, 9 & 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boukobza et al (U.S. 6,122,664) and Robinson et al (U.S. 6,570,867).
- 4. As per claims 1, 9 & 10 Boukobza disclosed a method for monitoring usage of resources allocated to a plurality of nodes of a network comprising the steps of assigning a parameter to each of the plurality of nodes of the network, wherein each parameter is indicative of a rate of change of usage of said resources of the node, locally monitoring at each of the nodes the rate of change of the usage of said resources of the nodes; reporting to a centralized management station of the network when the rate of change of the usage of the resources of one of the nodes exceeds a first threshold (col.1, lines 33-35 & col.2, lines 21-55). However Boukobza did not explicitly disclose initiating a poll of resources of nodes of the network by the centralized

Art Unit: 2143

management station in response to reporting from the node or a time interval being exceeded; determining whether a sum of the currently reported rates of change of usage of node resources, received in response to the poll initiated by the management station, exceeds a second threshold; and generating an alarm if the sum of the currently reported rates of change of usage of node resources exceeds the second threshold, else updating the time interval.

In the same field of endeavor Robinson disclosed initiating a poll of resources of nodes of the network by the centralized management station in response to reporting from the node or a time interval being exceeded; determining whether a sum of the currently reported rates of change of usage of node resources, received in response to the poll initiated by the management station, exceeds a second threshold; and generating an alarm if the sum of the currently reported rates of change of usage of node resources exceeds the second threshold, else updating the time interval (col.2, lines 60-67, col.3, lines 1-12, col.5, lines 3-55, col.12, lines 26-44 & col.13, lines 46-58).

It would have been obvious to one in the ordinary skill in the art at the time the invention was made to have incorporated central management station initiating a poll of resources of at least one node in response to the reporting from the node disclosed by Robinson in a method of monitoring usage of resources in nodes of a network as disclosed by Boukobza in order to improve the management and monitoring of paths and routes available in a network resulting in a more stable and robust network for users.

Application/Control Number: 09/813,415

Page 4

Art Unit: 2143

5. As per claim 6 Boukobza-Robinson disclosed the method of claim 1, further including the step of adjusting the usage of the resources in the node (Boukobza col.2, lines 21-38).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 7, 8, 11, 12 &14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mandel et al (U.S. 6,170.009) and Robinson et al (U.S. 6,570,867).
- 8. As per claim 7 Mandal disclosed a method for monitoring usage of a resource in nodes of a network (col.1, lines 53-67 & col.2, lines 1-3), comprising the steps of: (a) monitoring usage of the resource in a node (col.3, lines 1-14) to determine when a rate of change of the usage exceeds a first predetermined threshold: (b) reporting to a management station of the network when the rate of change of the usage exceeds said first predetermined threshold (col.3, lines 54-67). However Mandal did not explicitly disclose (c) initiating a poll of resources in the nodes of the network by the management station in response to reporting from the node or a time interval being exceeded. In the same field of endeavor Robinson disclosed (c) initiating a poll of resources in the nodes

Page 5

of the network by the management station in response to reporting from the node or a time interval being exceeded (col.2, lines 60-67, col.3, lines 1-12, col.5, lines 3-55, col.12, lines 26-44 & col.13, lines 46-58).

It would have been obvious to one in the ordinary skill in the art at the time the invention was made to have incorporated initiating a poll of resources in the nodes of the network by the management station in response to reporting from the node or a time interval being exceeded disclosed by Robinson in a method of monitoring usage of resources in nodes of a network as disclosed by Mandal in order to improve the management and monitoring of paths and routes available in a network resulting in a more stable and robust network for users.

9. As per claim 8 Mandal disclosed a method of monitoring usage of resources in nodes of a network (col.1, lines 53-67 & col.2, lines 1-7), comprising the steps of: asynchronous reporting of an event to a management station of the network of an event when a rate of change of a usage of at least one resource of said resources in any of said node deviates from a prescribed norm (col.3, lines 1-67 & col.4, lines 1-14). However Mandal did not explicitly disclose periodic polling of the said nodes in accordance with a polling interval, and a periodic polling of said nodes in response to reporting of said event, wherein a tunable parameter is adjusted in response to the usage. In the same field of endeavor Robinson disclosed periodic polling of the said nodes in accordance with a polling interval, and a periodic polling of said nodes in response to reporting of said event node (col.2, lines 60-67, col.3, lines 1-12, col.5, lines Art Unit: 2143

3-55, col.12, lines 26-44 & col.13, lines 46-58), wherein a tunable parameter is adjusted in response to the usage (col.7, lines 59-64).

It would have been obvious to one in the ordinary skill in the art at the time the invention was made to have incorporated central management station initiating a poll of resources of at least one node in response to the reporting from the node disclosed by Robinson in a method of monitoring usage of resources in nodes of a network as disclosed by Mandal in order to improve the management and monitoring of paths and routes available in a network resulting in a more stable and robust network for users.

- 10. As per claim 11 Mandal-Robinson disclosed the method defined in claim 8 wherein said nodes are selected from the group consisting of routers, switches, bridges and firewall devices (Mandal col.7, lines 29-39).
- 11. As per claim 12 Mandal-Robinson disclosed the method defined in claim 8 wherein said nodes are selected from the group consisting of servers, hosts, and layer 4-7 switches (Mandal col.2, lines66-67 & col.3, lines 1-12).
- 12. As per claims 14 Mandal-Robinson disclosed the method comprising: (e) summing all the reported rate of change of the usage of the resources; and (e) generating an alarm if the sum exceeds a second threshold, else updating a time interval (Robinson, col.4, lines 52-56 & col.5, lines 31-55).

Application/Control Number: 09/813,415 Page 7

Art Unit: 2143

Response to Arguments

13. Applicant's arguments filed 06/30/2006 have been fully considered but they are not persuasive.

- 14. Applicant argued that neither Mandel nor Robinson disclose assigning a node parameter indicative of a rate of change of usage of said resource, locally monitoring, at the node, the rate of change of the usage of the resources.
- 15. As to applicant's argument with respect to claim 7 & 8 the specification does not disclose a clear description of a resource therefore examiner has made the broadest interpretation of what a resource and in this case it is bandwidth which is disclosed by Mendal. Applicant describes <u>rate of change</u> on page 9 in the context as at each time t, a determination is made as to whether the rate of change on the monitored variable at any node exceeds a fixed amount. In the same context Mandal describes a policy in which a network management system should allow no more than 30% (i.e. a threshold) of total bandwidth for video traffic transmission which is depends on time. On col.7, lines 29-67 Mandel describe the implementation of policies to control the flow of packets (i.e. traffic) with respect to time across the network. Therefore in order to implement such policy it has to monitor at periodic times (col.6, lines 1-27) the rate of change of a parameter against a certain threshold dictated by the policy.

Application/Control Number: 09/813,415

Art Unit: 2143

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Asghar Bilgrami whose telephone number is 571-272-3907. The examiner can normally be reached on 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on 571-272-3924. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/813,415

Art Unit: 2143

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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SUPERVISORY PATENT EXAMINER

Page 9